

**Amendments to the Specification:**

Applicant has filed a substitute specification with paragraph numbering and the following amendments:

Paragraph [0001] was amended to replace the underscored space with the Application Serial No. of Attorney Docket No. 07447.0007.00000 and to delete the now extraneous docket-specific identification.

Paragraphs [0049], [0050] and [0052] have been amended to add text from Application No. 09/455,304 (now US Patent 6,678,425), that is incorporated by reference in this application by an original portion of paragraph [0049]. Specifically, the added material is taken from 09/455,304, page 7, lines 22 - page 8, line 7; page 8, lines 13 - 15; and page 7, lines 19 - 20, and with reference to Figure 5 in that application. These amendments introduce no new matter.

Paragraph [0054] has been amended to correct a typographical error in the serial number, changing "09/144,150" to "09/144,250". In addition, that application has issued as US Patent 6,310,988 and the attorney docket number reference has been deleted. Furthermore, this paragraph has been amended to show that application 09/223,882 has issued as US Patent 6,594,406.

Paragraph [0059] has also been amended to show that application 09/223,882 has issued as patent 6,594,406.

Paragraph [0063] has been amended to correct a sentence fragment created by a word processing error where a portion of a later paragraph was inadvertently included in this paragraph. This amendment does not add new matter; the new text in the amended paragraph is supported elsewhere in the specification at paragraphs [0058] and [0062].

Paragraphs [0071] through [0075] have been deleted because they are duplicates of paragraphs [0064] through [0068].

**Amendments to the Claims:**

This listing of claims will replace all prior version, and listings, of claims in the application:

**Listing of Claims:**

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Claim 1. (currently amended):       An embedded data code on a substrate, comprising:  
periodic tiles, each tile comprising  
a predefined code area having a code pattern common to the other tiles; and  
a predefined occlusion area not necessary for decoding the code pattern.

Claim 2. (original):   The embedded data code of claim 1, wherein each tile comprises  
glyphs.

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Claim 3. (original):   The embedded data code of claim 1, wherein the occlusion  
comprises a second code pattern.

Claim 4. (original):   The embedded data code of claim 1, wherein the occlusion  
comprises a graphic.

Claim 5. (original):   The embedded data code of claim 1, wherein the occlusion  
comprises text.

Claim 6. (original):   The embedded data code of claim 1, comprising multiple  
occlusions within a tile.

Claim 7. (original):   The embedded data code of claim 1, comprising occlusions which  
are contiguous for occlusion strips spanning across tile boundaries.

Claim 8. (original):   The embedded data code of claim 7, wherein the occlusion strips  
contain printing across tile boundaries.

Claim 9. (withdrawn): An embedded data code on a substrate, comprising:

periodic tiles, each comprising

a predefined code area having a code pattern common to the other tiles; and

a predefined occlusion area comprising address codes.

Claim 10. (withdrawn): The embedded data code of claim 9, wherein the address codes provide a logical ordering reference for the tiled code pattern.

Claim 11. (withdrawn): The embedded data code of claim 9, wherein each tile comprises glyphs.

Claim 12. (withdrawn): The embedded data code of claim 9, wherein the occlusion further comprises a graphic.

Claim 13. (withdrawn): The embedded data code of claim 9, wherein the occlusion further comprises text.

Claim 14. (withdrawn): The embedded data code of claim 9, comprising multiple occlusions within a tile.

Claim 15. (withdrawn): The embedded data code of claim 12, wherein the graphic comprises glyphs .

Claim 16. (withdrawn): The embedded data code of claim 15, wherein the graphic comprises glyphtones.